## INTERNATIONAL SEARCH REPORT

nal Application No PCT/JP2004/008412

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H05K5/00 B60Q3/00 B60Q1/26

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B60Q H05K F21V F21K F21S H01R H01L

H05B H02G B60R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document with Indication	
- Calogory	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ	US 5 672 000 A (LIN TAYEH) 30 September 1997 (1997-09-30)	1,2,5-9
Υ	column 1, line 24 - column 4, line 14 figures 1,3-5,7,8	10,11
Y	US 4 087 696 A (BULL DALE L) 2 May 1978 (1978-05-02) abstract; figures 1-6 column 1, lines 1-14 column 2, line 65 - column 5, line 24	10,11
X	DE 101 33 255 A (OSRAM OPTO SEMICONDUCTORS GMBH) 30 January 2003 (2003-01-30) abstract; figures 1-4 paragraphs '0001!, '0006!, '0016! - '0025! claims 12,13	1,6,7

Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the international filling date      L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filling date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  *X* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  *&* document member of the same patent family
Date of the actual completion of the International search	Date of mailing of the international search report
13 January 2005	<b>0</b> 2. 02. 2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016  Form PCT/ISA/210 (second sheet) (January 2004)	Authorized officer  Goltes, M



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C.(Continu	nation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/JP2004/008412		
Category °		Relevant to claim No.		
X	US 6 422 716 B2 (HENRICI DIETER ET AL) 23 July 2002 (2002-07-23) column 1, line 5 - column 2, line 50 column 3, line 6 - column 4, line 6 figures 1-7	1,2		
<b>x</b> .	US 6 017 241 A (KOMAI NEIL M) 25 January 2000 (2000-01-25) abstract; figures 1-10 column 1, lines 5,6,58-67 column 2 column 2, line 1 - line 10 column 3, line 1 - column 4, line 39	6-8		
X Y	EP 1 039 214 A (AUTOPAL SRO) 27 September 2000 (2000-09-27) paragraphs '0001!, '0008!, '0009!, '0016!; figure 2 claim 5	12-14 15		
Y	EP 1 289 341 A (HELLA KG HUECK & CO) 5 March 2003 (2003-03-05) abstract; figures 1,2 paragraphs '0001!, '0016!, '0021!, '0022!	15		
X	WO 98/38613 A (STAR HEADLIGHT & LANTERN CO IN) 3 September 1998 (1998-09-03) abstract; claims 1,2,4; figure 1 page 1 - page 4	1		
x	US 5 660 461 A (IGNATIUS RONALD W ET AL) 26 August 1997 (1997-08-26) abstract; figures 2-8 column 1, line 51 - column 2, line 3 column 2, line 66 - column 6, line 39	1		
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4	US 2001/007526 A1 (OHKOHDO MASAYA ET AL) 12 July 2001 (2001-07-12) paragraphs '0002!, '0014!, '0036! - '0044! figures 1-5	6		
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## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/008412

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

## IN RNATIONAL SEARCH REPORT

Information on patent family members

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